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 TI Inclusion and resolution process in preparation of optical pure benzimidazoles as medicines useful in resisting peptic ulcers  
 IN Deng, Jingen; Chi, Yongxiang; Zhu, Jin; Peng, Xiaohua; Jiang, Yaohong; Fu, Fangmin; Cui, Xin  
 PA Chengdu Inst. of Organic Chemistry, Chinese Academy of Sciences, Peop. Rep. China  
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 12 pp.  
 CODEN: CNXXEV  
 DT Patent  
 LA Chinese  
 IC ICM C07D401-12  
 ICS A61K031-44  
 CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1223262	A	19990721	CN 1998-124029	19981228
	CN 1087739	B	20020717		
PRAI	CN 1998-124029			19981228	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
CN 1223262	ICM	C07D401-12
		ICS A61K031-44

AB Six benzimidazole-type antiulcer agents timoprazole, picoprazole, omeprazole, lansoprazole, pantoprazole, and E-3,810 are resolved by embedding antiulcer agent with optical purity embedding agent at a mole ratio of 1:0.5-2.0 in org. solvent at 60-130.degree. for 12-72 h, standing at (-20)-10.degree. for 6-36 h, filtering to obtain one optical configuration solid inclusion compd. and another optical configuration filtrate, sepg. resp. solid and filtrate by silica gel column with EtOAc-petroleum ether (1:1-5)-alc. as gradient eluent, and/or recrystg. in haloalkane-ether (1:05-6) to obtain racemic solid and optical purity filtrate. The embedding agent is selected from 6,6'-di(R1)-2,2'-dihydroxy-1,1'-binaphthyl, 10,10'-dihydroxy-9,9'-biphenanthrenyl, trans-2-R2-4,5-di(.alpha.-hydroxy-.alpha.-phenylbenzyl)-1,3-dioxolane, and R3-CO-CH(O-R4)-CH(O-R4)-CO-R3 (R1 = H, Br, or CH3; R2 = H, cyclohexyl, or cyclopentyl; R3 = H, Et, NMe<sub>2</sub>, or N(C<sub>6</sub>H<sub>11</sub>)<sub>2</sub>; and R4 = H, or CH3); the org. solvent from arene, acetonitrile, and arene-n-hexane (0.5-6:1); and the alc. from one or more of ethanol, methanol, isopropanol, and butanol.

ST benzimidazole prepn resoln antiulcer agent; inclusion compd resoln

IT Antiulcer agents

Stereoisomers

(inclusion and resoln. process in prepn. of optical pure benzimidazoles as medicines useful in resisting peptic ulcers)

IT Resolution (separation)

(stereo; inclusion and resoln. process in prepn. of optical pure benzimidazoles as medicines useful in resisting peptic ulcers)

IT Inclusion compounds

RL: PUR (Purification or recovery); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(stereo; inclusion and resoln. process in prepn. of optical pure benzimidazoles as medicines useful in resisting peptic ulcers)

IT 60-29-7, Ether, uses 64-17-5, Ethanol, uses 67-56-1, Methanol, uses 67-63-0, Isopropanol, uses 67-66-3, uses 71-36-3, Butanol, uses 71-43-2, Benzene, uses 75-09-2, Dichloromethane, uses 107-06-2, 1,2-Dichloroethane, uses 108-20-3, Isopropyl ether 108-67-8, 1,3,5-Trimethylbenzene, uses 108-88-3, Methylbenzene, uses 110-54-3, Hexane, uses 141-78-6, Acetic acid ethyl ester, uses 142-96-1, Butyl ether 1330-20-7, Dimethylbenzene, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(inclusion and resoln. process in prepn. of optical pure benzimidazoles as medicines useful in resisting peptic ulcers)

IT 272457-44-0P 272457-45-1P 272457-46-2P 272457-47-3P 272457-48-4P, preparation 272457-49-5P 272458-70-5P 272776-09-7P 272776-10-0P 272776-11-1P 272776-12-2P 272776-13-3P 272776-14-4P  
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(inclusion and resoln. process in prepn. of optical pure benzimidazoles as medicines useful in resisting peptic ulcers)

IT 138530-94-6P 177795-60-7P  
RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(inclusion and resoln. process in prepn. of optical pure benzimidazoles as medicines useful in resisting peptic ulcers)

IT 119141-88-7P 119141-89-8P 138530-95-7P 177795-59-4P  
RL: PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(inclusion and resoln. process in prepn. of optical pure benzimidazoles as medicines useful in resisting peptic ulcers)

IT 87-91-2, reactions 7305-62-6 18531-94-7 18531-99-2 26549-29-1  
65283-60-5 73590-58-6 95033-75-3 103577-45-3 114026-70-9  
114026-76-5 114596-71-3 117976-90-6 127103-49-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(inclusion and resoln. process in prepn. of optical pure benzimidazoles as medicines useful in resisting peptic ulcers)